



IFWO

RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:56

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

ENTERED

P.6

```

4 <110> APPLICANT: Nixon, Andrew
5   Hogan, Shannon
7 <120> TITLE OF INVENTION: PAPP-A LIGANDS
10 <130> FILE REFERENCE: 10280-059001
12 <140> CURRENT APPLICATION NUMBER: US 10/783,311
13 <141> CURRENT FILING DATE: 2004-02-19
15 <150> PRIOR APPLICATION NUMBER: US 60/448,515
16 <151> PRIOR FILING DATE: 2003-02-19
18 <160> NUMBER OF SEQ ID NOS: 394
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1627
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 Met Arg Leu Trp Ser Trp Val Leu His Leu Gly Leu Leu Ser Ala Ala
29 1 5 10 15
30 Leu Gly Cys Gly Leu Ala Glu Arg Pro Arg Arg Ala Arg Arg Asp Pro
31 20 25 30
32 Arg Ala Gly Arg Pro Pro Arg Pro Ala Ala Gly Pro Ala Thr Cys Ala
33 35 40 45
34 Thr Arg Gly Pro Arg Pro Pro Arg Leu Ala Ala Ala Ala Ala Ala Ala
35 50 55 60
36 Gly Arg Ala Trp Glu Ala Val Arg Val Pro Arg Arg Arg Gln Gln Arg
37 65 70 75 80
38 Glu Ala Arg Gly Ala Thr Glu Glu Pro Ser Pro Pro Ser Arg Ala Leu
39 85 90 95
40 Tyr Phe Ser Gly Arg Gly Glu Gln Leu Arg Val Leu Arg Ala Asp Leu
41 100 105 110
42 Glu Leu Pro Arg Asp Ala Phe Thr Leu Gln Val Trp Leu Arg Ala Glu
43 115 120 125
44 Gly Gly Gln Arg Ser Pro Ala Val Ile Thr Gly Leu Tyr Asp Lys Cys
45 130 135 140
46 Ser Tyr Ile Ser Arg Asp Arg Gly Trp Val Val Gly Ile His Thr Ile
47 145 150 155 160
48 Ser Asp Gln Asp Asn Lys Asp Pro Arg Tyr Phe Phe Ser Leu Lys Thr
49 165 170 175
50 Asp Arg Ala Arg Gln Val Thr Thr Ile Asn Ala His Arg Ser Tyr Leu
51 180 185 190
52 Pro Gly Gln Trp Val Tyr Leu Ala Ala Thr Tyr Asp Gly Gln Phe Met
53 195 200 205
54 Lys Leu Tyr Val Asn Gly Ala Gln Val Ala Thr Ser Gly Glu Gln Val
55 210 215 220

```

RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:56

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

```

56 Gly Gly Ile Phe Ser Pro Leu Thr Gln Lys Cys Lys Val Leu Met Leu
57 225                230                235                240
58 Gly Gly Ser Ala Leu Asn His Asn Tyr Arg Gly Tyr Ile Glu His Phe
59                245                250                255
60 Ser Leu Trp Lys Val Ala Arg Thr Gln Arg Glu Ile Leu Ser Asp Met
61                260                265                270
62 Glu Thr His Gly Ala His Thr Ala Leu Pro Gln Leu Leu Leu Gln Glu
63                275                280                285
64 Asn Trp Asp Asn Val Lys His Ala Trp Ser Pro Met Lys Asp Gly Ser
65                290                295                300
66 Ser Pro Lys Val Glu Phe Ser Asn Ala His Gly Phe Leu Leu Asp Thr
67 305                310                315                320
68 Ser Leu Glu Pro Pro Leu Cys Gly Gln Thr Leu Cys Asp Asn Thr Glu
69                325                330                335
70 Val Ile Ala Ser Tyr Asn Gln Leu Ser Ser Phe Arg Gln Pro Lys Val
71                340                345                350
72 Val Arg Tyr Arg Val Val Asn Leu Tyr Glu Asp Asp His Lys Asn Pro
73                355                360                365
74 Thr Val Thr Arg Glu Gln Val Asp Phe Gln His His Gln Leu Ala Glu
75                370                375                380
76 Ala Phe Lys Gln Tyr Asn Ile Ser Trp Glu Leu Asp Val Leu Glu Val
77 385                390                395                400
78 Ser Asn Ser Ser Leu Arg Arg Arg Leu Ile Leu Ala Asn Cys Asp Ile
79                405                410                415
80 Ser Lys Ile Gly Asp Glu Asn Cys Asp Pro Glu Cys Asn His Thr Leu
81                420                425                430
82 Thr Gly His Asp Gly Gly Asp Cys Arg His Leu Arg His Pro Ala Phe
83                435                440                445
84 Val Lys Lys Gln His Asn Gly Val Cys Asp Met Asp Cys Asn Tyr Glu
85                450                455                460
86 Arg Phe Asn Phe Asp Gly Gly Glu Cys Cys Asp Pro Glu Ile Thr Asn
87 465                470                475                480
88 Val Thr Gln Thr Cys Phe Asp Pro Asp Ser Pro His Arg Ala Tyr Leu
89                485                490                495
90 Asp Val Asn Glu Leu Lys Asn Ile Leu Lys Leu Asp Gly Ser Thr His
91                500                505                510
92 Leu Asn Ile Phe Phe Ala Lys Ser Ser Glu Glu Glu Leu Ala Gly Val
93                515                520                525
94 Ala Thr Trp Pro Trp Asp Lys Glu Ala Leu Met His Leu Gly Gly Ile
95                530                535                540
96 Val Leu Asn Pro Ser Phe Tyr Gly Met Pro Gly His Thr His Thr Met
97 545                550                555                560
98 Ile His Glu Ile Gly His Ser Leu Gly Leu Tyr His Val Phe Arg Gly
99                565                570                575
100 Ile Ser Glu Ile Gln Ser Cys Ser Asp Pro Cys Met Glu Thr Glu Pro
101                580                585                590
102 Ser Phe Glu Thr Gly Asp Leu Cys Asn Asp Thr Asn Pro Ala Pro Lys
103                595                600                605
104 His Lys Ser Cys Gly Asp Pro Gly Pro Gly Asn Asp Thr Cys Gly Phe

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/783,311

DATE: 08/02/2004

TIME: 11:31:56

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

```

105      610      615      620
106 His Ser Phe Phe Asn Thr Pro Tyr Asn Asn Phe Met Ser Tyr Ala Asp
107 625      630      635      640
108 Asp Asp Cys Thr Asp Ser Phe Thr Pro Asn Gln Val Ala Arg Met His
109      645      650      655
110 Cys Tyr Leu Asp Leu Val Tyr Gln Gly Trp Gln Pro Ser Arg Lys Pro
111      660      665      670
112 Ala Pro Val Ala Leu Ala Pro Gln Val Leu Gly His Thr Thr Asp Ser
113      675      680      685
114 Val Thr Leu Glu Trp Phe Pro Pro Ile Asp Gly His Phe Phe Glu Arg
115      690      695      700
116 Glu Leu Gly Ser Ala Cys His Leu Cys Leu Glu Gly Arg Ile Leu Val
117 705      710      715      720
118 Gln Tyr Ala Ser Asn Ala Ser Ser Pro Met Pro Cys Ser Pro Ser Gly
119      725      730      735
120 His Trp Ser Pro Arg Glu Ala Glu Gly His Pro Asp Val Glu Gln Pro
121      740      745      750
122 Cys Lys Ser Ser Val Arg Thr Trp Ser Pro Asn Ser Ala Val Asn Pro
123      755      760      765
124 His Thr Val Pro Pro Ala Cys Pro Glu Pro Gln Gly Cys Tyr Leu Glu
125      770      775      780
126 Leu Glu Phe Leu Tyr Pro Leu Val Pro Glu Ser Leu Thr Ile Trp Val
127 785      790      795      800
128 Thr Phe Val Ser Thr Asp Trp Asp Ser Ser Gly Ala Val Asn Asp Ile
129      805      810      815
130 Lys Leu Leu Ala Val Ser Gly Lys Asn Ile Ser Leu Gly Pro Gln Asn
131      820      825      830
132 Val Phe Cys Asp Val Pro Leu Thr Ile Arg Leu Trp Asp Val Gly Glu
133      835      840      845
134 Glu Val Tyr Gly Ile Gln Ile Tyr Thr Leu Asp Glu His Leu Glu Ile
135      850      855      860
136 Asp Ala Ala Met Leu Thr Ser Thr Ala Asp Thr Pro Leu Cys Leu Gln
137 865      870      875      880
138 Cys Lys Pro Leu Lys Tyr Lys Val Val Arg Asp Pro Pro Leu Gln Met
139      885      890      895
140 Asp Val Ala Ser Ile Leu His Leu Asn Arg Lys Phe Val Asp Met Asp
141      900      905      910
142 Leu Asn Leu Gly Ser Val Tyr Gln Tyr Trp Val Ile Thr Ile Ser Gly
143      915      920      925
144 Thr Glu Glu Ser Glu Pro Ser Pro Ala Val Thr Tyr Ile His Gly Arg
145      930      935      940
146 Gly Tyr Cys Gly Asp Gly Ile Ile Gln Lys Asp Gln Gly Glu Gln Cys
147 945      950      955      960
148 Asp Asp Met Asn Lys Ile Asn Gly Asp Gly Cys Ser Leu Phe Cys Arg
149      965      970      975
150 Gln Glu Val Ser Phe Asn Cys Ile Asp Glu Pro Ser Arg Cys Tyr Phe
151      980      985      990
152 His Asp Gly Asp Gly Val Cys Glu Glu Phe Glu Gln Lys Thr Ser Ile
153      995      1000      1005

```

RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:56

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

```

154 Lys Asp Cys Gly Val Tyr Thr Pro Gln Gly Phe Leu Asp Gln Trp Ala
155      1010                      1015                      1020
156 Ser Asn Ala Ser Val Ser His Gln Asp Gln Gln Cys Pro Gly Trp Val
157 1025                      1030                      1035                      1040
158 Ile Ile Gly Gln Pro Ala Ala Ser Gln Val Cys Arg Thr Lys Val Ile
159                      1045                      1050                      1055
160 Asp Leu Ser Glu Gly Ile Ser Gln His Ala Trp Tyr Pro Cys Thr Ile
161                      1060                      1065                      1070
162 Ser Tyr Pro Tyr Ser Gln Leu Ala Gln Thr Thr Phe Trp Leu Arg Ala
163                      1075                      1080                      1085
164 Tyr Phe Ser Gln Pro Met Val Ala Ala Ala Val Ile Val His Leu Val
165      1090                      1095                      1100
166 Thr Asp Gly Thr Tyr Tyr Gly Asp Gln Lys Gln Glu Thr Ile Ser Val
167 1105                      1110                      1115                      1120
168 Gln Leu Leu Asp Thr Lys Asp Gln Ser His Asp Leu Gly Leu His Val
169                      1125                      1130                      1135
170 Leu Ser Cys Arg Asn Asn Pro Leu Ile Ile Pro Val Val His Asp Leu
171                      1140                      1145                      1150
172 Ser Gln Pro Phe Tyr His Ser Gln Ala Val Arg Val Ser Phe Ser Ser
173                      1155                      1160                      1165
174 Pro Leu Val Ala Ile Ser Gly Val Ala Leu Arg Ser Phe Asp Asn Phe
175      1170                      1175                      1180
176 Asp Pro Val Thr Leu Ser Ser Cys Gln Arg Gly Glu Thr Tyr Ser Pro
177 1185                      1190                      1195                      1200
178 Ala Glu Gln Ser Cys Val His Phe Ala Cys Glu Lys Thr Asp Cys Pro
179                      1205                      1210                      1215
180 Glu Leu Ala Val Glu Asn Ala Ser Leu Asn Cys Ser Ser Ser Asp Arg
181                      1220                      1225                      1230
182 Tyr His Gly Ala Gln Cys Thr Val Ser Cys Arg Thr Gly Tyr Val Leu
183                      1235                      1240                      1245
184 Gln Ile Arg Arg Asp Asp Glu Leu Ile Lys Ser Gln Thr Gly Pro Ser
185      1250                      1255                      1260
186 Val Thr Val Thr Cys Thr Glu Gly Lys Trp Asn Lys Gln Val Ala Cys
187 1265                      1270                      1275                      1280
188 Glu Pro Val Asp Cys Ser Ile Pro Asp His His Gln Val Tyr Ala Ala
189                      1285                      1290                      1295
190 Ser Phe Ser Cys Pro Glu Gly Thr Thr Phe Gly Ser Gln Cys Ser Phe
191                      1300                      1305                      1310
192 Gln Cys Arg His Pro Ala Gln Leu Lys Gly Asn Asn Ser Leu Leu Thr
193                      1315                      1320                      1325
194 Cys Met Glu Asp Gly Leu Trp Ser Phe Pro Glu Ala Leu Cys Glu Leu
195      1330                      1335                      1340
196 Met Cys Leu Ala Pro Pro Pro Val Pro Asn Ala Asp Leu Gln Thr Ala
197 1345                      1350                      1355                      1360
198 Arg Cys Arg Glu Asn Lys His Lys Val Gly Ser Phe Cys Lys Tyr Lys
199                      1365                      1370                      1375
200 Cys Lys Pro Gly Tyr His Val Pro Gly Ser Ser Arg Lys Ser Lys Lys
201                      1380                      1385                      1390
202 Arg Ala Phe Lys Thr Gln Cys Thr Gln Asp Gly Ser Trp Gln Glu Gly

```

RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:56

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

```

203          1395          1400          1405
204 Ala Cys Val Pro Val Thr Cys Asp Pro Pro Pro Pro Lys Phe His Gly
205          1410          1415          1420
206 Leu Tyr Gln Cys Thr Asn Gly Phe Gln Phe Asn Ser Glu Cys Arg Ile
207 1425          1430          1435          1440
208 Lys Cys Glu Asp Ser Asp Ala Ser Gln Gly Leu Gly Ser Asn Val Ile
209          1445          1450          1455
210 His Cys Arg Lys Asp Gly Thr Trp Asn Gly Ser Phe His Val Cys Gln
211          1460          1465          1470
212 Glu Met Gln Gly Gln Cys Ser Val Pro Asn Glu Leu Asn Ser Asn Leu
213          1475          1480          1485
214 Lys Leu Gln Cys Pro Asp Gly Tyr Ala Ile Gly Ser Glu Cys Ala Thr
215          1490          1495          1500
216 Ser Cys Leu Asp His Asn Ser Glu Ser Ile Ile Leu Pro Met Asn Val
217 1505          1510          1515          1520
218 Thr Val Arg Asp Ile Pro His Trp Leu Asn Pro Thr Arg Val Glu Arg
219          1525          1530          1535
220 Val Val Cys Thr Ala Gly Leu Lys Trp Tyr Pro His Pro Ala Leu Ile
221          1540          1545          1550
222 His Cys Val Lys Gly Cys Glu Pro Phe Met Gly Asp Asn Tyr Cys Asp
223          1555          1560          1565
224 Ala Ile Asn Asn Arg Ala Phe Cys Asn Tyr Asp Gly Gly Asp Cys Cys
225          1570          1575          1580
226 Thr Ser Thr Val Lys Thr Lys Lys Val Thr Pro Phe Pro Met Ser Cys
227 1585          1590          1595          1600
228 Asp Leu Gln Gly Asp Cys Ala Cys Arg Asp Pro Gln Ala Gln Glu His
229          1605          1610          1615
230 Ser Arg Lys Asp Leu Arg Gly Tyr Ser His Gly
231          1620          1625
233 <210> SEQ ID NO: 2
234 <211> LENGTH: 1547
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 2
239 Glu Ala Arg Gly Ala Thr Glu Glu Pro Ser Pro Pro Ser Arg Ala Leu
240 1          5          10          15
241 Tyr Phe Ser Gly Arg Gly Glu Gln Leu Arg Val Leu Arg Ala Asp Leu
242          20          25          30
243 Glu Leu Pro Arg Asp Ala Phe Thr Leu Gln Val Trp Leu Arg Ala Glu
244          35          40          45
245 Gly Gly Gln Arg Ser Pro Ala Val Ile Thr Gly Leu Tyr Asp Lys Cys
246          50          55          60
247 Ser Tyr Ile Ser Arg Asp Arg Gly Trp Val Val Gly Ile His Thr Ile
248 65          70          75          80
249 Ser Asp Gln Asp Asn Lys Asp Pro Arg Tyr Phe Phe Ser Leu Lys Thr
250          85          90          95
251 Asp Arg Ala Arg Gln Val Thr Thr Ile Asn Ala His Arg Ser Tyr Leu
252          100          105          110
253 Pro Gly Gln Trp Val Tyr Leu Ala Ala Thr Tyr Asp Gly Gln Phe Met

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/783,311

DATE: 08/02/2004
TIME: 11:31:57

Input Set : A:\10280-059001.txt
Output Set: N:\CRF4\08022004\J783311.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:358; Xaa Pos. 4,5,6,7,8,9,10,11
Seq#:359; Xaa Pos. 5,6,7,8,9,10
Seq#:360; Xaa Pos. 8,9,10,11,13
Seq#:361; Xaa Pos. 7,9,11
Seq#:362; Xaa Pos. 1,2,3
Seq#:363; Xaa Pos. 4,5,6
Seq#:364; Xaa Pos. 1,3,4,5,6,8
Seq#:365; Xaa Pos. 4,5,6,8
Seq#:366; Xaa Pos. 9
Seq#:367; Xaa Pos. 9
Seq#:368; Xaa Pos. 2,5,6,8,10
Seq#:369; Xaa Pos. 2,4
Seq#:370; Xaa Pos. 1,3,5
Seq#:371; Xaa Pos. 3
Seq#:372; Xaa Pos. 3
Seq#:373; Xaa Pos. 2,3
Seq#:374; Xaa Pos. 2,3,7
Seq#:375; Xaa Pos. 2,3,7
Seq#:376; Xaa Pos. 2,3,7,9
Seq#:377; Xaa Pos. 1,2
Seq#:378; Xaa Pos. 3
Seq#:379; Xaa Pos. 1
Seq#:380; Xaa Pos. 1,2
Seq#:381; Xaa Pos. 1,2,3,4,5,6,7,8,9,10
Seq#:382; Xaa Pos. 1,2,3,4,5,6
Seq#:383; Xaa Pos. 3,5
Seq#:384; Xaa Pos. 1,2,3,4,5,6,7
Seq#:385; Xaa Pos. 1,2,3,4,5,6,7
Seq#:386; Xaa Pos. 1,2,3,4,5,6,7
Seq#:387; Xaa Pos. 7,9,11,12
Seq#:388; Xaa Pos. 1,2,3,4,5,6
Seq#:389; Xaa Pos. 8,9,10,11,13
Seq#:390; Xaa Pos. 1,2,3,4
Seq#:391; Xaa Pos. 2,5,6,8,10
Seq#:392; Xaa Pos. 1,2,3,4,5,6,7,8
Seq#:393; Xaa Pos. 1,2,3,5,7,8,9,10

VERIFICATION SUMMARY

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:57

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

L:2141 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:2502 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:126
L:6228 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6236 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6240 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6244 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6248 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6252 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6256 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6260 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:358
L:6261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358 after pos.:0
L:6272 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:359
L:6281 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:359
L:6285 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:359
L:6289 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:359
L:6290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:359 after pos.:0
L:6301 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:360
L:6309 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:360
L:6313 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:360
L:6317 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:360
L:6321 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:360
L:6322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360 after pos.:0
L:6333 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6337 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:361
L:6341 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:361
L:6345 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:361
L:6346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:0
L:6357 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6361 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:362
L:6365 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:362
L:6366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:0
L:6377 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6381 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:363
L:6385 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:363
L:6389 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:363
L:6390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:363 after pos.:0
L:6401 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6405 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:364
L:6410 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:364
L:6414 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:364
L:6418 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:364
L:6422 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:364
L:6423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:364 after pos.:0
L:6434 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6438 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:365

VERIFICATION SUMMARY

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:57

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

L:6442 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:365
L:6446 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:365
L:6447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:365 after pos.:0
L:6458 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6462 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:366
L:6463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:0
L:6474 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6478 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:367
L:6479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367 after pos.:0
L:6490 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6494 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:368
L:6498 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:368
L:6502 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:368
L:6506 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:368
L:6510 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:368
L:6511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:368 after pos.:0
L:6522 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6527 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:369
L:6532 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:369
L:6533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:369 after pos.:0
L:6544 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6548 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:370
L:6552 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:370
L:6557 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:370
L:6558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370 after pos.:0
L:6569 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6573 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:371
L:6574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371 after pos.:0
L:6585 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6589 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:372
L:6590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:0
L:6601 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6606 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:373
L:6610 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:373
L:6611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:373 after pos.:0
L:6622 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6626 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:374
L:6630 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:374
L:6631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:374 after pos.:0
L:6642 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6646 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:375
L:6650 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:375
L:6655 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:375
L:6656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:375 after pos.:0
L:6667 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6671 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:376
L:6675 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:376
L:6679 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:376
L:6680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:376 after pos.:0

VERIFICATION SUMMARY

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:57

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

L:6691 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6695 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:377
L:6696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:377 after pos.:0
L:6707 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6711 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:378
L:6712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:378 after pos.:0
L:6723 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6727 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:379
L:6728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:379 after pos.:0
L:6739 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6743 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:380
L:6747 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:380
L:6748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:380 after pos.:0
L:6759 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6763 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6767 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6771 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6775 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6780 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6784 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6788 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6792 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6796 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6800 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:381
L:6801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:381 after pos.:0
L:6812 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6816 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:382
L:6820 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:382
L:6824 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:382
L:6828 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:382
L:6829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382 after pos.:0
L:6840 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6844 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:383
L:6848 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:383
L:6849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:383 after pos.:0
L:6860 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6864 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6868 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6872 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6876 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6880 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6884 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6888 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:384
L:6889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:384 after pos.:0
L:6900 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6904 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385
L:6908 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385
L:6912 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385
L:6916 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385

VERIFICATION SUMMARY

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:57

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

L:6920 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385
L:6924 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385
L:6928 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:385
L:6929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:385 after pos.:0
L:6940 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6944 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6948 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6952 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6956 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6960 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6964 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6968 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:386
L:6969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:386 after pos.:0
L:6980 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6984 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:387
L:6988 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:387
L:6992 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:387
L:6996 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:387
L:6997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:387 after pos.:0
L:7008 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7012 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:388
L:7016 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:388
L:7020 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:388
L:7024 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:388
L:7025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:388 after pos.:0
L:7036 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7040 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:389
L:7044 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:389
L:7048 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:389
L:7052 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:389
L:7056 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:389
L:7057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389 after pos.:0
L:7068 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7072 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:390
L:7076 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:390
L:7080 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:390
L:7081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:390 after pos.:0
L:7092 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7096 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:391
L:7100 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:391
L:7104 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:391
L:7109 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:391
L:7114 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:391
L:7115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:391 after pos.:0
L:7126 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7130 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:392
L:7134 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:392
L:7138 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:392
L:7142 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:392

VERIFICATION SUMMARY

DATE: 08/02/2004

PATENT APPLICATION: US/10/783,311

TIME: 11:31:57

Input Set : A:\10280-059001.txt

Output Set: N:\CRF4\08022004\J783311.raw

L:7146 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:392
L:7150 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:392
L:7151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:392 after pos.:0
L:7162 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7166 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:393
L:7170 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:393
L:7174 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:393
L:7178 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:393
L:7182 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:393
L:7183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:0